

## EAST Search History

| Ref # | Hits | Search Query                          | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---------------------------------------|--|------------------|---------|------------------|
| S1    | 2    | "4067722".pn.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 10:45 |
| S2    | 98   | terpyridine                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 10:47 |
| S3    | 1483 | terpyridine                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 10:47 |
| S4    | 192  | terpyridine.clm.                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 17:01 |
| S5    | 1033 | tetraphenylporphyrin                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 11:27 |
| S6    | 0    | S5 same paranitro                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 11:25 |
| S7    | 0    | S5 same (p adj no)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 11:25 |
| S8    | 23   | tetraphenylporphyrin same aminophenyl | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2007/12/20 11:28 |

## EAST Search History

|     |      |                                       |  |     |    |                  |
|-----|------|---------------------------------------|--|-----|----|------------------|
| S9  | 0    | "tetra(aminophenyl)porphyrin"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 11:28 |
| S10 | 3    | tetra adj aminophenyl adj porphyrin   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 11:29 |
| S11 | 188  | crapo.in.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 12:53 |
| S12 | 29   | S11 and porphyrin                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 14:13 |
| S13 | 1347 | porphyrin same peptide                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 14:13 |
| S14 | 520  | porphyrin same peptide same conjugate | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 14:13 |
| S15 | 2    | wo-9414440-\$.did.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 14:44 |
| S16 | 0    | wo-2001007442-\$.did.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 14:44 |

## EAST Search History

|     |     |                                     |  |     |    |                  |
|-----|-----|-------------------------------------|--|-----|----|------------------|
| S17 | 1   | wo-200107442-\$.did.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 15:14 |
| S18 | 2   | "20040029181".pn.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 15:14 |
| S19 | 1   | S18 and cleaved                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 15:14 |
| S20 | 1   | 1994-234323.NRAN.                   | DERWENT  | AND | ON | 2007/12/20 16:07 |
| S21 | 10  | "1359901"                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 16:09 |
| S22 | 1   | 2002-644653.NRAN.                   | DERWENT  | AND | ON | 2007/12/20 16:10 |
| S23 | 8   | Ru adj polypyridine adj complex     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 16:28 |
| S24 | 72  | polypyridine adj complex            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 16:28 |
| S25 | 644 | terpyridine same complex            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 17:01 |
| S26 | 477 | terpyridine same complex same metal | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 17:02 |

## EAST Search History

|     |    |  |  |     |    |                  |
|-----|----|--|--|-----|----|------------------|
| S27 | 36 | terpyridine same complex same metal.clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 17:08 |
| S28 | 2  | "5994339".pn.                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | AND | ON | 2007/12/20 17:08 |

=> d his ful

(FILE 'HOME' ENTERED AT 09:34:44 ON 20 DEC 2007)

FILE 'REGISTRY' ENTERED AT 09:34:53 ON 20 DEC 2007

L1           STRUCTURE UPLOADED  
              D  
L2           2 SEA SSS SAM L1  
L3           27 SEA SSS FUL L1  
L4           ANALYZE PLU=ON L3 1- LC :       7 TERMS  
              D

FILE 'ZCAPLUS' ENTERED AT 09:36:18 ON 20 DEC 2007

L5           29 SEA ABB=ON PLU=ON L3  
              D L5 1-29 IBIB HITSTR  
              D L4

FILE 'BEILSTEIN' ENTERED AT 09:38:21 ON 20 DEC 2007

L6           1 SEA ABB=ON PLU=ON L3  
              D  
              D L4

FILE 'CHEMCATS, TOXCENTER' ENTERED AT 09:39:03 ON 20 DEC 2007

L7           4 SEA ABB=ON PLU=ON L3  
              D L7 1-4

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 DEC 2007 HIGHEST RN 958936-22-6

DICTIONARY FILE UPDATES: 19 DEC 2007 HIGHEST RN 958936-22-6

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FILE ZCAPLUS

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FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26  
FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BEILSTEIN  
FILE LAST UPDATED ON September 26, 2007

FILE COVERS 1771 TO 2007.  
**FILE CONTAINS 10.119,480 SUBSTANCES**

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

\*\*\*\*\*  
\* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. \*  
\* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE \*  
\* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE \*  
\* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. \*  
\* FOR PRICE INFORMATION SEE HELP COST \*  
\*\*\*\*\*

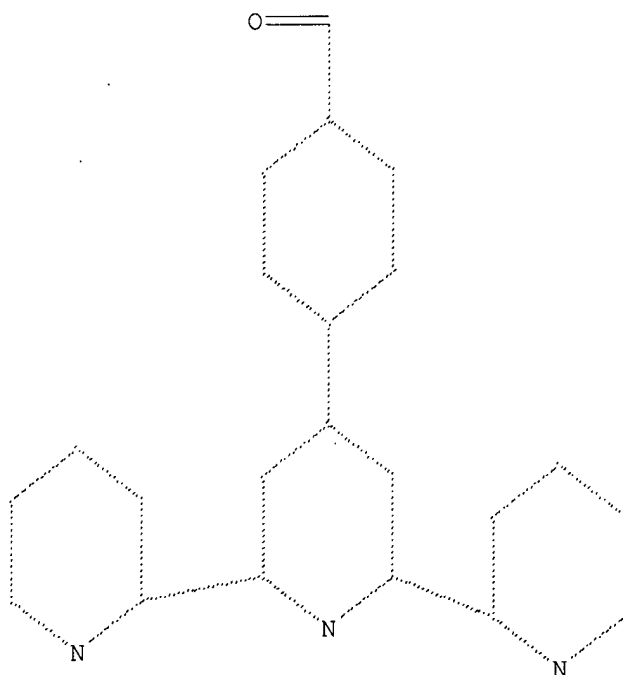
>>> Price change as of January 1st, 2008: Connect Time and Structure Search fees re-introduced. See NEWS and HELP COST <<<

FILE CHEMCATS  
FILE LAST UPDATED 15 DECEMBER 2007 (20071215/UP)

FILE TOXCENTER  
FILE COVERS 1907 TO 18 Dec 2007 (20071218/ED)

=> d que sta

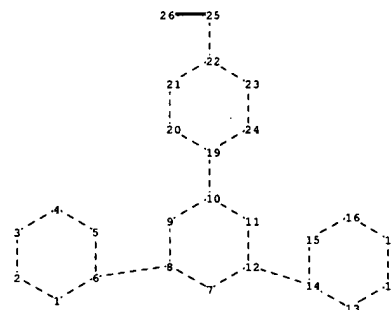
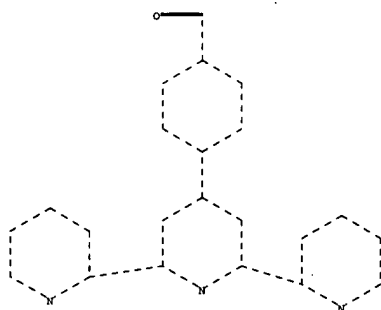
L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 27 SEA FILE=REGISTRY SSS FUL L1

L7 4 SEA L3



chain nodes :

25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  
22 23 24

chain bonds :

6-8 10-19 12-14 22-25 25-26

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14  
13-18 14-15 15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 6-8 7-8 7-12 8-9 9-10 10-11 10-19  
11-12 12-14 13-14 13-18 14-15 15-16 16-17 17-18 19-20 19-24 20-21  
21-22 22-23 22-25 23-24 25-26

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom  
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS  
26:CLASS



=> d his ful

(FILE 'HOME' ENTERED AT 14:22:59 ON 20 DEC 2007)

FILE 'REGISTRY' ENTERED AT 14:25:18 ON 20 DEC 2007

L1           STRUCTURE UPLOADED  
L2           STRUCTURE UPLOADED  
L3           STRUCTURE UPLOADED  
L4           49 SEA SSS SAM L1  
L5           50 SEA SSS SAM L2  
L6           1008 SEA SSS FUL L1  
L7           1336 SEA SSS FUL L2  
L8           244 SEA SUB=L6 SSS FUL L3  
L9           152 SEA SUB=L7 SSS FUL L3  
L10          STRUCTURE UPLOADED  
L11          102 SEA SUB=L8 SSS FUL L10  
L12          77 SEA SUB=L9 SSS FUL L10  
L13          179 SEA ABB=ON PLU=ON L11 OR L12  
L14          ANALYZE PLU=ON L13 1- LC :       6 TERMS  
            D

FILE 'ZCAPLUS' ENTERED AT 14:30:51 ON 20 DEC 2007

L15          57 SEA ABB=ON PLU=ON L13

FILE 'REGISTRY' ENTERED AT 14:32:12 ON 20 DEC 2007

L16          STRUCTURE UPLOADED  
L17          0 SEA SUB=L13 SSS FUL L16

FILE 'ZCAPLUS' ENTERED AT 14:32:57 ON 20 DEC 2007

D L15 1-57 IBIB HITSTR

FILE HOME

FILE REGISTRY

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FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

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=> d que sta l15

L1 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

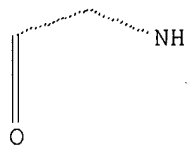
Structure attributes must be viewed using STN Express query preparation.

L2 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

L3 STR



Structure attributes must be viewed using STN Express query preparation.

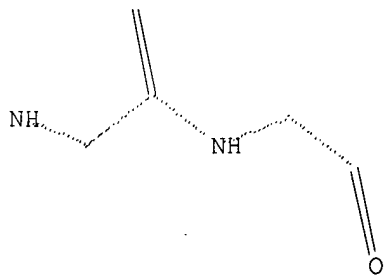
L6 1008 SEA FILE=REGISTRY SSS FUL L1

L7 1336 SEA FILE=REGISTRY SSS FUL L2

L8 244 SEA FILE=REGISTRY SUB=L6 SSS FUL L3

L9 152 SEA FILE=REGISTRY SUB=L7 SSS FUL L3

L10 STR



Structure attributes must be viewed using STN Express query preparation.

L11 102 SEA FILE=REGISTRY SUB=L8 SSS FUL L10

L12 77 SEA FILE=REGISTRY SUB=L9 SSS FUL L10

10/614,324

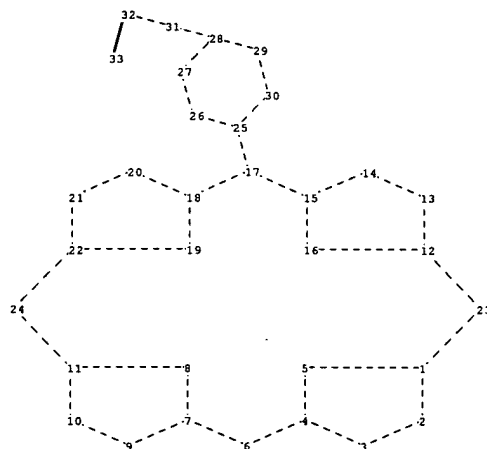
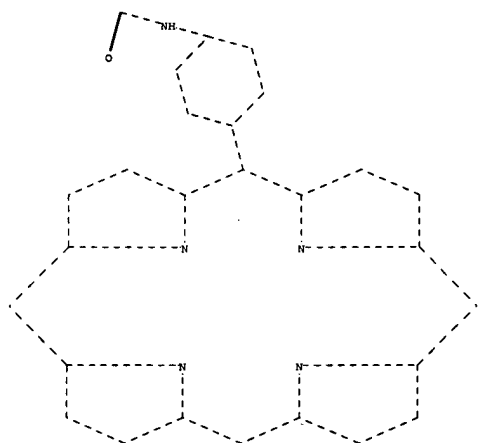
12/20/2007

L13

179 SEA FILE=REGISTRY ABB=ON PLU=ON L11 OR L12

L15

57 SEA FILE=ZCAPLUS ABB=ON PLU=ON L13



chain nodes :

31 32 33

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  
22 23 24 25 26 27 28 29 30

chain bonds :

17-25 28-31 31-32 32-33

ring bonds :

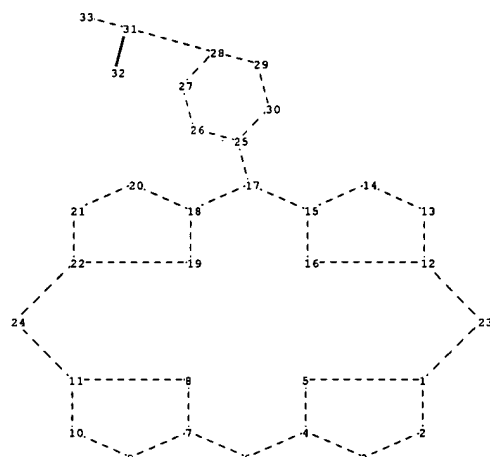
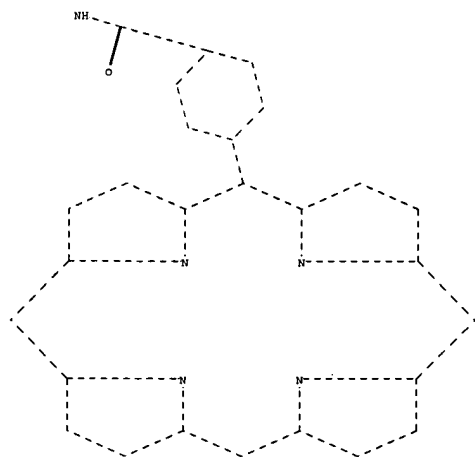
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24  
12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22  
20-21 21-22 22-24 25-26 25-30 26-27 27-28 28-29 29-30

exact/norm bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24  
12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 17-25 18-19 18-20  
19-22 20-21 21-22 22-24 25-26 25-30 26-27 27-28 28-29 28-31 29-30  
31-32 32-33

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom  
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom  
26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:CLASS 32:CLASS 33:CLASS



chain nodes :

31 32 33

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  
22 23 24 25 26 27 28 29 30

chain bonds :

17-25 28-31 31-32 31-33

ring bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24  
12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22  
20-21 21-22 22-24 25-26 25-30 26-27 27-28 28-29 29-30

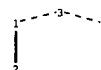
exact/norm bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24  
12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 17-25 18-19 18-20  
19-22 20-21 21-22 22-24 25-26 25-30 26-27 27-28 28-29 28-31 29-30  
31-32 31-33

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom  
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom  
26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:CLASS 32:CLASS 33:CLASS

H:\STN queries\amino acid generic.str



chain nodes :

1 2 3 4

chain bonds :

1-3 1-2 3-4

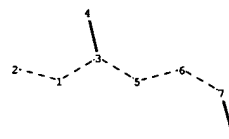
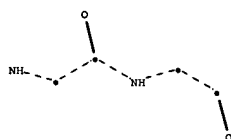
exact/norm bonds :

1-3 1-2 3-4

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS

H:\STN\queries\diptide.str



chain nodes :

1 2 3 4 5 6 7 8

chain bonds :

1-2 1-3 3-4 3-5 5-6 6-7 7-8

exact/norm bonds :

1-2 1-3 3-4 3-5 5-6 6-7 7-8

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

H:\STN\queries\generic metal.str

|  |  |
|--|--|
|  |  |
|--|--|

chain nodes :  
1

Match level :  
1:CLASS



=> d his ful

(FILE 'HOME' ENTERED AT 17:35:21 ON 20 DEC 2007)

FILE 'REGISTRY' ENTERED AT 17:35:42 ON 20 DEC 2007

L1 STRUCTURE UPLOADED

D

L2 STRUCTURE UPLOADED

L3 1336 SEA SSS FUL L1

L4 152 SEA SUB=L3 SSS FUL L2

FILE 'ZCAPLUS' ENTERED AT 17:37:31 ON 20 DEC 2007

L5 48 SEA ABB=ON PLU=ON L4

D L5 1-48 IBIB HITSTR

FILE 'STNGUIDE' ENTERED AT 17:38:21 ON 20 DEC 2007

FILE HOME

FILE REGISTRY

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substance identification.

FILE STNGUIDE  
FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Dec 18, 2007 (20071218/UP).

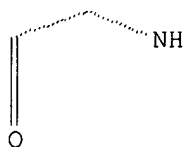
=> d que sta

L1 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

L2 STR



Structure attributes must be viewed using STN Express query preparation.

L3 1336 SEA FILE=REGISTRY SSS FUL L1  
L4 152 SEA FILE=REGISTRY SUB=L3 SSS FUL L2  
L5 48 SEA FILE=ZCAPLUS ABB=ON PLU=ON L4